From wang!elf.wang.com!ucsd.edu!info-hams-relay Sat Mar 23 02:42:40 1991 remote
from tosspot
Received: by tosspot (1.63/waf)
     via UUCP; Sat, 23 Mar 91 09:47:06 EST
     for lee
Received: from somewhere by elf.wang.com id aa04310; Sat, 23 Mar 91 2:42:39 GMT
Received: from ucsd.edu by relay1.UU.NET with SMTP
     (5.61/UUNET-shadow-mx) id AA02580; Fri, 22 Mar 91 20:34:05 -0500
Received: by ucsd.edu; id AA04773
     sendmail 5.64/UCSD-2.1-sun
     Fri, 22 Mar 91 13:10:35 -0800 for brian
Received: by ucsd.edu; id AA04716
     sendmail 5.64/UCSD-2.1-sun
     Fri, 22 Mar 91 13:10:14 -0800 for /usr/lib/sendmail -oc -odb -oQ/var/spool/
lqueue -oi -finfo-hams-relay info-hams-list
Message-Id: <9103222110.AA04716@ucsd.edu>
Date: Fri, 22 Mar 91 13:10:12 PST
From: Info-Hams Mailing List and Newsgroup <info-hams-relay@ucsd.edu>
Reply-To: Info-Hams@ucsd.edu
Subject: Info-Hams Digest V91 #221
To: Info-Hams@ucsd.edu

Info-Hams Digest Fri, 22 Mar 91 Volume 91 : Issue 221

Today's Topics:

A 2m rig at Radio Shack?
Antenna Question
antique radio's age?
Anybody out there ever fixed a microwave oven (2 msgs)
Any KW 2000B owners out there ?
Computer QRM
Fun with Balloons and long wires!
Ham interference on Cable TV? (2 msgs)
Help with Tektronixs 661 scope, General Radio Co. connectors.
Hints & Kinks for taking the General code test
KNWD TS-430S problem
Need info on Knwd. TS-900 tcvr!
New Technician Frequencies
phone stuff in cw bands
Reading Presence of Signal from ICOM R7000 Serial Port?
SW Monitors Needed in Middle East Region
WEATHER FAX ON PC'S
When is the contest????

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 15 Mar 91 15:05:00 GMT
From: swrinde!elroy.jpl.nasa.gov!usc!zaphod.mps.ohio-state.edu!magnus.acs.ohio-state.edu!csn!boulder!bohemia!f510.n5000.z200.METRONET.ORG!Gary.Box@ucsd.edu
Subject: A 2m rig at Radio Shack?
To: info-hams@ucsd.edu

Dana. I think they probobly will once the no-code population
increases. The other scenereo is that new hams populate 2M and the
older ones move to other bands on their own. A better solution would
be more multi-band hardware, doing to the hi bands what multi-band
HF rigs bring to low bands. I don;t think any of these options are
bad for the hobby.
---
 * Origin: The Computer Lab (200:5000/510)

--
==
Gary Box - via MetroNet node 200:5000/301
The Bohemia BBS System, Boulder Colorado (303)449-8946
UUCP: Gary.Box@f510.n5000.z200.METRONET.ORG
 or : ...!boulder!bohemia.METRONET.ORG!510!Gary.Box
==

Date: 14 Mar 91 15:07:39 GMT
From: usc!wuarchive!gumby!vela!argo.acs.oakland.edu!SDKUO@ucsd.edu
Subject: Antenna Question
To: info-hams@ucsd.edu

In article <1991Mar13.224233.3352@vax5.cit.cornell.edu>, inuy@vax5.cit.cornell.edu
writes:
>I have an antenna question for all of you who are good at that type
>of thing. I have been looking over different types of antenna, and
>I think I want to build a yagi beam. I have figured out all the
>dimensions of it, but there is one problem. The book has the
>impedance listed as 75 ohms, but my (a VHF scanner) receiver has a
>50 ohm input impedance. Will this make much of a difference to a
>receiver? If it will degrade the performance of the antenna, is

>there a simple way to transform the 75 ohm impedance from the
>antenna to 50 ohms?
>--Matthew Kleinmann

Will hooking up a 75 ohm antenna to a 50 ohm input make a difference?
Not really for receiving purposes, 75 ohm is close enough. In fact,
75 ohm coax cable (RG/59?) that is designed for VHF/UHF TVs might be
cheaper than buying RG/58 which is not as good in the VHF/UHF spectrum.

Hope this helps,

Steven D. Kuo
Mini computer address: sdkuo@argo.acs.oakland.edu
Micro computer address: sdkuo@sycom.UUCP
Oakland University, Rochester, Michigan, USA
"Go Green, Go MSU"

Date: 22 Mar 91 16:48:48 GMT
From: chapman@cu-arpa.cs.cornell.edu
Subject: antique radio's age?
To: info-hams@ucsd.edu

This isn't about amateur radio, so hit 'n' if you aren't an antique
radio person, but I figured this group is about my best bet for
finding people who know about old radios. I'm trying to find out
when Zenith Radio Corp. made the model 410 broadcast receiver.
Here is what I know that might help date it:

Circuit is super-heterodyne (when was that invented? 30's?)

I brushed the dust off some of the tubes: type 59, type 80 (80 is a rectifier?)

The cabinet is 40" tall, 20" wide, 15" deep, with what I would call
a cross between "Gothic" and "Art Nouveau" styling.

Thanks to anyone who can help,
Richard Chapman

Date: 19 Mar 91 20:24:27 GMT
From: agate!apple!usc!rpi!zaphod.mps.ohio-state.edu!caen!uflorida!
mailer.cc.fsu.edu!sun13!murray@ucbvax.berkeley.edu
Subject: Anybody out there ever fixed a microwave oven
To: info-hams@ucsd.edu

In article <4P02y1w163w@shark.cs.fau.edu> terryb.bbs@shark.cs.fau.edu (terry bohning) writes:
>
>I don't know if this has been posted yet, but there is at leas 1 book
>on Microwave Oven Repair: "Practical Microwave Oven Repair",
>Homer L. Davidson, 1984, TAB Books, Blue Ridge Summit, PA.

Er, I've seen a few TAB books that were just rife with errors. In one basic electronics book I happened to pick up, they couldn't even get the formulas for series and parallel capacitances correct...

...Not sure I'd trust them to tell me how to mess around with HV and high-power RF...

--
Standard Disclaimers Apply| ---Get Out Of HELL Free!---
John R. Murray |The bearer of this card is entitled to forgive
murray@vsjrm.scri.fsu.edu |Himself of all Sins, Errors and Transgressions.
Supercomputer Research Inst.| -- D. Owen Rowley

Date: 19 Mar 91 00:37:26 GMT
From: swrinde!zaphod.mps.ohio-state.edu!pacific.mps.ohio-state.edu!linac,
Subject: Anybody out there ever fixed a microwave oven
To: info-hams@ucsd.edu

In article <91077.142209FC138001@ysub.ysu.edu> FC138001@ysub.ysu.edu (Phil Munro) writes:
>
> My recomendation is *DON'T MESS WITH YOUR MICROWAVE* unless you are
>interested in finding out what cataracts are like. Stray microwave
>energy is very dangerous to your eyes!!!! And from the questions
>asked in this post it looks like the writer does not understand this!
>
   But why would a routine electrical repair have any effect on this?
   He's talking about replacing a major component, such as the magnetron.
   This is a standard kind of repair and has no effect on the seals, nor
   does it expose the technician to any hazard for the simple reason
   that the microwave oven is never powered on during repair.

--

Michael A. Covington | Artificial Intelligence Programs
The University of Georgia | Athens, GA 30602   U.S.A.

Date: 21 Mar 91 21:28:42 GMT
From: swrinde!elroy.jpl.nasa.gov!usc!snorkelwacker.mit.edu!
thunder.mcrcim.mcgill.edu!bonnie.concordia.ca!s3!mlefebvr@ucsd.edu
Subject: Any KW 2000B owners out there ?
To: info-hams@ucsd.edu

I would like to hear from hams who operate a KW Electronics model
2000B hf transceiver. I just got one and I would like to learn
more about its stronger and weaker points. I will e-mail back
or post a summary depending on the number of replies I receive.

Thanks, Marc   VE2HQI

--
Marc Lefebvre,   IREQ: Institut de Recherche d'Hydro-Quebec
Analyste Ressources Informatiques   1802 Montee Ste-Julie, Varennes,
                                        Prov. Quebec, CANADA J3X 1S1.
mlefebvr@ireq.hydro.qc.ca   Tel: 514 652-8554 fax: 514 652-8555

Date: 21 Mar 91 16:43:59 GMT
From: swrinde!cs.utexas.edu!ut-emx!ccwf.cc.utexas.edu@ucsd.edu
Subject: Computer QRM
To: info-hams@ucsd.edu

Hi. Further investigation of my monitor-related QRM reveals the following
interesting facts:

1. The noise is directly proportional to the amount of data visible
   on the screen.

2. The noise goes away if I unplug the data cable coming that
   connects the computer and the monitor.

3. The noise DOES NOT go away if I unplug the monitor power cord.

4. The noise is reduced to a lower level if I place my hands in
   certain positions on the exterior surface of the monitor unit.
   (You've heard of "laying on of hands"? ;-)

Maybe these facts can help someone out there suggest corrective action. I
tried the snap-on chokes from Radio Shack; absolutely no improvement
whatsoever.

Thanks in advance,

Kip Ingram
N5RYK
kipper@ccwf.cc.utexas.edu
(512)471-4496

Date: 15 Mar 91 17:20:30 GMT
From: swrinde!zaphod.mps.ohio-state.edu!pacific.mps.ohio-state.edu!linac!
carlson@ucsd.edu
Subject: Fun with Balloons and long wires!
To: info-hams@ucsd.edu

About 4 years ago the group I do F.D. with, the Fox River Radio League in Aurora Illinois, tried this with great success on 80 meters. We used stranded #18 and 6 4ft diameter weather balloons. The Helium was given to us by a local (welding/industrial) gas supplier (to finish off a tank). The six balloons were held together with a used tennis net. Managing the filling of the balloons and rigging of the antenna was as much fun as operating with it. During the day we had calm winds, but as night progressed a light and variable 5 knot wind put the antenna almost horizontal ! When it was up it worked like gang-busters compared with a Butternut, and of course it was far more efficient than a dipole hung between trees; remember- most locations dont allow for an OPTIMUM antenna height on 80 :*} ....

As long as you are a good distance from overhead lines, airports and the sort - Its a lot of fun!! dont forget to include a conterpoise.

73

Kermit W9XA

p.s. if you can - its fun to try reeling the line in and out to see if you can play with the feed impedance and pattern. a good matchbox is a must.....try 160 too!

Date: 14 Mar 91 19:43:34 GMT
From: swrinde!cs.utexas.edu!convex!texsun!letni!rwsys!kf5iw!k5qwb!lrk@ucsd.edu
Subject: Ham interference on Cable TV?
To: info-hams@ucsd.edu

mrbg8552@uxa.cso.uiuc.edu (Matt Byer) writes:

> My friend's cable tv gets interrupted several times a week by
> what I think are ham operators. I can get parts of a callsign

>
> Matthew Byer
> Champaign, Illinois, USA
> mrbg8552@uxa.cso.uiuc.edu

This works both ways. The cable company is not supposed to leak
signals out or let signals in. If you can find the ham, he may
know how to handle it. He may be wondering about the TV signals.
Most likely, it's not the cable but something in your friends
house since the cable equipment is usually much better than the
home entertainment stuff. Check his cables and make notes of
which channels and devices he gets interference on and try
another TV in the same position. The hams will probably be a
good source of help but they need all the clues to figure out
what's happening.

----

                lrk@k5qwb.UUCP   lrk%k5qwb@kf5iw.UUCP
73,   utacfd.utarl.edu!letni!rwsys!kf5iw!k5qwb!lrk
Lyn Kennedy   K5QWB @ N5LDD.#NTX.TX.US
                P.O. Box 5133, Ovilla, TX, USA 75154

-------- "We have met the enemy and they are us." Pogo -----------------

----

Date: 20 Mar 91 19:29:54 GMT
From: newstop!jethro!caliban.Sun.COM!tjonz@sun.com
Subject: Ham interference on Cable TV?
To: info-hams@ucsd.edu

In article <371@platypus.uofs.edu> bill@platypus.uofs.edu (Bill Gunshannon)
writes:

> Because the channel experiencing interference is Cable Channel 18,
> which just happens to overlap the 2 meter band, I don't think
> anything the cable company is going to will relieve the problem.

My local cable company was clever enough not to use chanel 18. They were not,
however, clever enough to avoid channel 19, which everlaps with the local
police band at 154 MHz. Every time the police repeater kicks in, I get a
lovely herring bone pattern on channel 19 that resembles an expensive tweed
jacket. An if the police have a cruiser in the neighborhood when I'm watching
channel 19, I might as well be watching an old rerun of Adam-12.

Todd, KB6JXT

Date: 20 Mar 91 06:48:55 GMT
From: ucselx!bionet!uwm.edu!caen!sdd.hp.com!spool.mu.edu!cs.umn.edu!
talon.UCS.ORST.EDU!usenet!@ucsd.edu
Subject: Help with Tektronixs 661 scope, General Radio Co. connectors.
To: info-hams@ucsd.edu

I have acquired a Tektronics Type 661 oscilloscope but have no probes
for it. It doesn't use the standard BNC for probes but instead has
something called a General Radio Universal Connector. This connector
looks something like a 4 petal flower about 5/8 inch diameter & it
sticks out about 3/4 inch from the front of the scope, it also has a
little stem-like deal in the center.

 Does anyone have an address for General Radio Co., now called GenRad?
 Any source of these connectors would be helpful. I would also like
 to buy a manual for the Tek 661 scope if anyone has one.

Dean Youngquist   youngqd@nyssa.cs.orst.edu
428 NW 9th St.   Amateur Radio Operator N7LPE
Corvallis, Oregon 97330   Tel. (503) 753-7646 or 757-0335

Date: 20 Mar 91 17:00:52 GMT
From: zephyr.ens.tek.com!tektronix!sequent!mntgfx!
mrosneck@beaver.cs.washington.edu
Subject: Hints & Kinks for taking the General code test
To: info-hams@ucsd.edu

My father is going to (finally) upgrade to General. I understand how
the new volunteer examiner system works but I'm not sure how the code
tests are actually structured these days. The last time I took a code
test I got to sit in front of the FCC and sweat a lot.

What sort of a test should he expect? How is it graded? Is a sending
test still required? Are there any hints for taking the test?

I believe there was a thread on this a few months ago. I'd appreciate
it if someone could summarize the comments for me.

Thanks

Mark
--
Mark Rosneck   (503) 685-1340   KB0US

Mentor Graphics Corp., 8005 S.W. Boeckman Road, Wilsonville, OR 97070
...!{sequent,tessi,apollo}!mntgfx!mrosneck   OR   mrosneck@MENTORG.COM

Date: 18 Mar 91 15:45:41 GMT
From: uakari.primate.wisc.edu!zaphod.mps.ohio-state.edu!sol.ctr.columbia.edu!
emory!wa4mei!ke4zv!gary@ames.arpa
Subject: KNWD TS-430S problem
To: info-hams@ucsd.edu

In article <26530001@hpldsla.sid.hp.com> bruno@hpldsla.sid.hp.com (Bruno
Bienenfeild) writes:
> Following are the symptoms: during CW/SSB transmission, the power
> output dropps arbitrarily to somewhere between 2-3 watts.
> If I continue to transmit it returns to full power and after awhile
> it drops down again.

This sounds like a temperature related intermittant caused by RF "hot
spotting". The culprit is likely a "chip" coupling capacitor or the
emitter bonding of the final RF transistor. The most likely culprit is
an output coupling capacitor. Open up your RF deck and while running the
rig into a dummy, hit suspects with Instant Freeze spray. The problem
will instantly go away when you hit the right part. Then replace it.

Gary KE4ZV

Date: 15 Mar 91 13:44:43 GMT
From: usc!elroy.jpl.nasa.gov!sdd.hp.com!spool.mu.edu!snorkelwacker.mit.edu!bloom-
beacon!eru!hagbard!sunic!news.funet.fi!hydra!cc.helsinki.fi!stickler@ucsd.edu
Subject: Need info on Knwd. TS-900 tcvr!
To: info-hams@ucsd.edu

I'm considering purchasing a used Kenwood TS-900 and would
like some opinions on the model from any experienced
owners/users. The rig itself is in near-mint condition, so
age is not so much of a factor as whether or not it is (was)
a good radio given the era when it was manufactured. The
external/additional VFO and power supply/speaker are included
in the package, so any comments on their operation in
addition to the tranceiver would also be helpful. I would also
like to know how hard it would be to find (new) replacement
tubes.

Thanks,

//
 Patrick Stickler University of Helsinki   stickler@cc.helsinki.fi
//

Date: 19 Mar 91 05:03:31 GMT
From: swrinde!zaphod.mps.ohio-state.edu!magnus.acs.ohio-state.edu!tut.cis.ohio-state.edu!pacific.mps.ohio-state.edu!linac,
Subject: New Technician Frequencies
To: info-hams@ucsd.edu

I plan to get my Technician class license soon by studying the old questions that I have (01nov89). The contents is pretty much the same from what I've heard, but I think the frequencies have changed. Here is the amateur band that I have effective 01-Nov-89. If someone could please send me the changes in band(s) I would much appriciate it.

3700-3750 kHz/CW
7100-7150 kHz/CW
21.1-21.2 MHz/CW
28.1-28.5 MHz/CW
28.3-28.5 MHz/Telephony
50.0-54.0 MHz/CW
50.1-54.0 MHz/Telephony
144.0-148.0 MHz/CW
144.1-148.0 MHz/All
220.0-225.0 MHz/All (that has changed I think?)
420.0-450.0 MHz/All (this can't be right?)
902.0-928.0 MHz/All
1240.0-1300.0 MHz/All

please send email or reply, thanks,

Steven D. Kuo
sdkuo@argo.acs.oakland.edu
Oakland University, Rochester, Michigan, USA
"Go Green, Go MSU"

Date: 21 Mar 91 13:22:33 GMT
From: tut.cis.ohio-state.edu!magnus.acs.ohio-state.edu!zaphod.mps.ohio-state.edu!wuarchive!udel!brahms.udel.edu!skymaste@ucbvax.berkeley.edu
Subject: phone stuff in cw bands
To: info-hams@ucsd.edu

>
>And BTW, did I ever tell you about the Ws and Ks stomping on our
>nightly traffic net @ 3740 (Alberta Public Safety Net)? CW signals
                        ^^^^
     I don't hear them verry loudly, her in Delaware, but I am kind of
     curious about how they can be here just about every night of the week?
     Is this another case of FCC sitting on their lazy buts, or do these
     people have special privelages. I could burn right through them with
     CW; but that wouln't be nice, and there is plenty of room to QSY.

                             Paul

--
      "Let there be light"   -- Bomb #22 -- Starship Dark Star

      Paul Masters N3IRU (The ham license arived 12/04/90)

Date: 19 Mar 91 22:38:52 GMT
From: melpar!toppin@uunet.uu.net
Subject: Reading Presence of Signal from ICOM R7000 Serial Port?
To: info-hams@ucsd.edu

I have an ICOM R7000 with a serial interface that I am writing
Unix/C software for and have run into a problem.
I am able to command it to tune without any trouble but have
been unable to determine if the receiver has found a signal.
There appears to be no documented command that asks the receiver
if a signal has broken squelch.
If anyone has any experience with this or any tips please post
to this group or drop me a line.
I know this is possible as there are several vendor software packages
that are used to control the R7000 but I don't know if they have
made a hardware mod to detect a signal.

I am also interested in general in communicating with any other
ICOM users or people writing receiver control software.
I was on this group a little while late last year but have been
away for a few months.

thanks
Doug Toppin
uunet!melpar!toppin

Date: 18 Mar 91 16:24:01 GMT
From: wshb!cee@uunet.uu.net
Subject: SW Monitors Needed in Middle East Region
To: info-hams@ucsd.edu

Hi, Netlanders. I have posted this request before, but unfortunately I was unable to contact the respondent in Cairo who answered our request.

The World Service of The Christian Science Monitor is searching for Volunteer Monitors to monitor our shortwave broadcasts into the Middle East region. These volunteers will recieve Report Forms, Schedules, QSL cards and bumper stickers, and we will reimburse the Monitor for his/her postal expenses.

If anyone is interested in joining our selct group of worldwide Monitors, please e-mail me, or write to

Primary Monitor Reports
WSHB
Rt. 2, Box 107-A
Pineland, S. C. 29934
USA

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****
C. Ed Evans, Senior Station Manager, CSMS * cee@wshb.csms.com (803)625-4880
WSHB, Cypress Creek, SC * WCSN, Scotts Corner, ME * KHBI, Saipan, Mariana I.
****

Date: 22 Mar 91 15:23:54 GMT
From: news-mail-gateway@ucsd.edu
Subject: WEATHER FAX ON PC'S
To: info-hams@ucsd.edu

I am looking for hardware/software solutions to receiving weather fax on PC's. What I need the hardware/software to do is receive HF weather charts from broadcast and/or landline. Some other criteria that I need to be met is that the system must be able to receive and save weather fax charts and to automatically save the individual charts to files without operator intervention. The system must be able to selectivly pick the charts it wants to save to file. The system must be able to run in background and to be able to print out a file while receiving incoming charts.

If any one out there has any info you can get me at navoea@tecnet1.jcte.jcs.mil

/Dwight/

Date: 22 Mar 91 01:15:04 GMT
From: swrinde!zaphod.mps.ohio-state.edu!ub!dsinc!cs.widener.edu!netnews.upenn.edu!
eniac.seas.upenn.edu!depolo@ucsd.edu
Subject: When is the contest????
To: info-hams@ucsd.edu

A message was posted to rec.ham-radio regarding this by another person,
so I'm posting a similar question here to try to find the answer.

QST reports that CQ contest is this weekend (23rd and 24th). Others
have said that the dates in QST are wrong. CQ magazine (the sponsor)
said that it was the 30th and the 31st. This seems strange, because
that's Easter weekend. Does anybody know which is the correct
weekend?
                                --- Jeff

--
-=-
 Jeff DePolo N3HBZ/AE   Twisted Pair: (215) 386-7199
 depolo@eniac.seas.upenn.edu   RF: 146.685- 442.70+ 144.455s (Philadelphia)
 University of Pennsylvania   Carrier Pigeon: 420 S. 42nd St. Phila PA 19104

Date: 19 Mar 91 01:16:43 GMT
From: pyramid!infmx!randall@hplabs.hpl.hp.com
To: info-hams@ucsd.edu

References <1991Mar12.080943.10901@nntp-server.caltech.edu>,
<4822@eastapps.East.Sun.COM>, <745@chiton.ucsd.edu>hpl
Subject : Freebanders (was: Re: Frequently Asked Questions for Amateur Radio)

In article <745@chiton.ucsd.edu> rec@chiton (Richard Currier) writes:
>
>Don't stop at 27.990...Listen all the way up into the ham bands at least to
>28.150. The CW portion of the ten meter band is virtually unusable on the
>weekends when the band is open...

I don't know of any other solution to the problem except one: the FCC
needs to catch the people that are operating above 27.405. Hams can't
"self-police" these frequencies because they're not our frequencies.
The FCC must act. I'm really tired of this anti-regulation
B.S. that's caused regulatory agencies to be under-funded. Richard is
right: we will lose 10 meters by default if something isn't done.

--

=-=

Randall Rhea Informix Software, Inc.
Senior Programmer/Analyst, MIS uunet!pyramid!infmx!randall

Date: 19 Mar 91 17:15:22 GMT
From: hayward@gargoyle.uchicago.edu
To: info-hams@ucsd.edu

References <1991Mar14.224017.6341@mentorg.com>,
<1991Mar19.020410.2745@informix.com>, <1072@wells.UUCP>utex
Subject : Re: Hints & Kinks for taking the General code test

In article <1072@wells.UUCP> k3tx@wells.UUCP (Dave Heller) writes:
:
:1. The "example" of the questions for the code test - - ultra- simple
:multiple choice - are proof ample that the V.E. program is truly a
:nice way of giving away amateur licenses.
:
:2. Bad enough that a full minute solid copy is no longer required,
:
:3. Nor is the sending test - -
:
:4. But to permit 7 out of l0 ultra-simple choices to be a pass - -
:
:5. Even with the minimal knowledge and some careful guessing a 50%
:score can be automatic - -
:
:6. 25% is automatic with pure guesssing.
:
:7. So, I ask, what VE group is making up tests as ridiculous
:as the example given?
:

The ARRL VEC has announced that it will be going to multiple choice
over the next few months.
--
Peter B. Hayward University of Maine WX9T

End of Info-Hams Digest
****